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SECRET

ROUTING	
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PRIORITY

PRIORITY

TO : DIRECTOR

FROM :

ACTION: DPD (1,2,3,4,5,6,7,8)

INFO : S/C (9)

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TOR: 1839Z 16 JUL 59

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NO CHANGE IN CLASS. ☒

☐ DECLASSIFIED

CLASS. CHANGED TO: TS S C

NEXT REVIEW DATE:

AUTH: HR 70-2

DATE: 5/6/81 REVIEWER:

IN 03269

25X1A

TO

INFO

DATE: 5/6/81 REVIEWER:

25X1

- 25X1A
- 25X1A
1. THIS MESSAGE IS FOR EUGENE KIEFER.
 2. IN ATTEMPTING TO FOLLOW THE PLAN OF MARKING TIME ON FISH AND PROCEEDING WITH KINGFISH WE FIND THAT THE LATTER IS DIFFICULT TO DO EFFECTIVELY WITHOUT SOME DEGREE OF ELECTRONIC TESTING. WE HAVE THEREFORE, BEEN SEARCHING FOR A PROGRAM WHICH IS COMPATIBLE WITH OUR CURRENT FUNDING SITUATION AND WHICH WOULD GIVE US VALUABLE INFORMATION ON THE KINGFISH PROGRAM. WE HAVE FOUND SUCH A PROGRAM TO BE AS FOLLOWS:

A. TO DETERMINE THE FULL ADVANTAGE OF A FLAT BOTTOM DESIGN SUCH AS WAS USED ON KINGFISH WE PROPOSE TO MODIFY THE FULL SCALE FISH MODEL. THE INLET SECTION WOULD BE REMOVED AND THE REMAINING LOWER PORTION FAIRED OUT BOTH FORWARD AND ALONG THE SPAN OF THE WING IN SUCH A MANNER THAT IT WOULD ESSENTIALLY GIVE FLAT BOTTOM RESULTS. THIS WOULD BE RUN AT "S" BAND THROUGH A COMPLETE SERIES OF TILT ANGLES FROM 0 TO 45 DEGREES. TO OBTAIN A BASELINE CHECK THE MODEL WOULD BE RUN WITHOUT THIS MODIFICATION THROUGH THE

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SAME RANGE OF ANGLES PRIOR TO MODIFICATION.

B. WE WOULD PLAN TO DO THE FOLLOWING 8TH SCALE TESTING: WE WOULD MODIFY THE HERRING INLET COWL TO REPRESENT THESE PARTS AS THOUGH THEY WERE MADE PARTIALLY OF MATERIAL SUCH AS FIBRE GLASS. AN EGG CRATE GRILL WOULD ALSO BE SIMULATED IN THE SUBSONIC PORTION OF THE DUCT. WE FEEL THAT THIS MODIFICATION MIGHT BE A WIDE BAND SOLUTION TO THE PROBLEM WHICH SHOWED UP AT THE LAST TESTS MADE AT 70 MEGACYCLES. TO GIVE SOME FURTHER EVIDENCE TO THE VALIDITY OF THIS SOLUTION AT OTHER WAVE LENGTHS WE PROPOSE TO RUN THIS MODEL AT "S" BAND WHERE IT WOULD GIVE THE EQUIVALENT OF 400 MEGACYCLES. WE WOULD ALSO LIKE TO RUN A SERIES OF TESTS IN WHICH THE EIGHT DEGREE AND 30 DEGREE TAILS ARE VARIED, SINCE THIS WAS AN AREA WHERE WE HAD QUESTIONABLE RESULTS DURING OUR LAST RUN PERIOD. IF THERE IS TIME, WE WOULD LIKE TO MAKE SIMILIAR MODIFICATIONS TO THE MODEL REPRESENTING THE SMELT CONFIGURATION. IT IS ALSO ANTICIPATED IF TIME PERMITS THAT WE WILL OBTAIN SOME SHIELD DESIGN DATA

3. OUR ESTIMATE OF THE TIME REQUIRED FOR THIS PROGRAM IS ROUGHLY 1 WEEK AND PROBABLY 4 PEOPLE WOULD BE INVOLVED FROM HERE. NO ADDITIONAL FUNDS WILL BE REQUIRED TO CARRY OUT THESE TESTS SINCE IT WILL BE CONSIDERED TO BE A PART OF OUR PRESENT KINGFISH EFFORT WHICH IS BEING FUNDED OUT OF TCR NBR 10. WE WOULD LIKE TO START THIS TEST PROGRAM EARLY NEXT WEEK AND WOULD APPRECIATE YOUR CONCURRENCE WITH THIS PLAN.

END OF MESSAGE

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